Troubleshooting Guide

The unit does not operate.
- No batteries in the battery compartment.
- Batteries installed incorrectly.
- Weak battery. Replace all the batteries.
- The AC power cord is not connected.

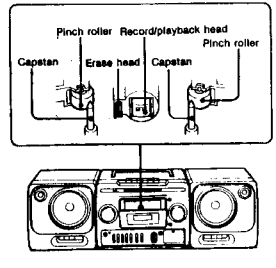
A cassette cannot be inserted.
- The cassette is being inserted improperly.
- PLAY is depressed.

REC cannot be depressed.
- No cassette.
- The cassette inserted has the tab removed. Use another cassette or cover the slot with plastic tape.

Tape doesn't move.
- PAUSE is depressed.
- DIR MODE selector and DIR switch are not set correctly.

No sound from speakers.
- Headphones are plugged in.
- VOLUME is turned down completely.
- The setting of FUNCTION is incorrect.
- The speakers are connected improperly.

Sound drop-outs, loss of high frequencies, or excessive noise.
- Dirty heads. Clean the illustrated portions with a cleaning tip slightly moistened with cleaning fluid or alcohol.
- Demagnetize the heads and all the metal parts in the tape path with a commercially available head demagnetizer.



Specifications

POWER OUTPUT AND TOTAL HARMONIC DISTORTION:
With 6 ohm loads, both channels driven, from 80-10,000 Hz; rated 4.5 watts per channel minimum RMS power, with no more than 10% total harmonic distortion in AC operation.

Frequency range	FM: 87.6-108 MHz AM: 530-1,710 kHz
Antennas	FM: Telescopic antenna AM: Built-in ferrite bar
Frequency response	100-10,000 Hz
Speakers	Two way: tweeter 2 cm (13/16 in.) dia. woofer 10 cm (4 in.) dia. Impedance: 6 ohms
Inputs	Mixing microphone (MIX MIC) input jack (mini jack) (1) Sensitivity 3 mV for low impedance microphone CD/LINE IN jacks (stereo phono) (2) Input impedance 47 kilohms Sensitivity 0.24 V
Outputs	Headphones jack (stereo mini jack) for 16-68 ohms impedance headphones Speaker terminals for supplied 6 ohms impedance speaker
Power requirements	120 V AC, 60 Hz 9 V DC, six size D (R20) batteries
Power consumption	15 W in AC operation

Battery life

Batteries	FM recording	Tape playback
Sony SUM-1 (NS)	Approx. 8 hours	Approx. 2 hours
Sony AM-1 alkaline	Approx. 18 hours	Approx. 6 hours

Dimensions	Approx. 650 × 195 × 190 mm (w/h/d) (25 5/8 × 7 3/4 × 7 1/2 inches) incl. projecting parts and controls, not incl. handle
Weight	Approx. 5.8 kg (12 lb 13 oz) incl. batteries
Accessory supplied	AC power cord (1)
Accessories not supplied	Sony "MDR" headphone series Head demagnetizer HE-5C

Design and specifications subject to change without notice.

SONY

3-755-176-21(1)A22

Radio Cassette-Corder

CFS-1140

Operating Instructions

Before operating the unit, please read this manual thoroughly and retain it for future reference.

Owner's Record

The model number is located at the rear and the serial number is located in the battery compartment. Record the serial number in the space provided below. Refer to these numbers whenever you call upon your Sony dealer regarding this product.

Model No. CFS-1140 Serial No._____

MEGA BASS

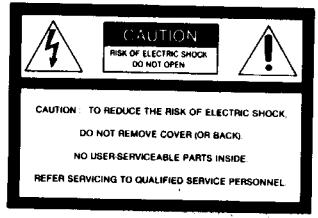
The Sony MEGA BASS system for heavy and powerful bass sound.

Sony Corporation © 1992 Printed in Malaysia

WARNING

WARNING

To prevent fire or shock hazard, do not expose the unit to rain or moisture.


CAUTION
RISK OF ELECTRIC SHOCK
DO NOT OPEN
CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK,
DO NOT REMOVE COVER (OR BACK).
NO USER-SERVICEABLE PARTS INSIDE.
REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.

This symbol is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.

This symbol is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

You are cautioned that any changes or modifications not expressly approved in this manual could void your authority to operate this equipment.

Precautions

Notes on Power Sources

- Operate the unit only on 120 V AC or 9 V DC. For AC operation, use the supplied AC power cord; do not use any other type. For battery operation, use six size D (R20) batteries.
- Unplug the unit from the wall outlet when it is not to be used for an extended period of time.
- Remove batteries when they are not in use to avoid damage from battery leakage.

Handling the Unit

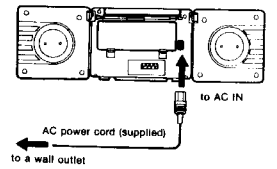
- Avoid exposure to extreme temperatures, direct sunlight, a drop of water, dust, or mechanical shock.
- Should anything fall into the unit, immediately unplug the unit (or remove batteries) and have it checked by qualified personnel before operating it again.
- When the unit has not been used for a long time, set it in the playback mode for several minutes before inserting a cassette.

Note on Cassette

Use of cassettes longer than 90 minutes is not recommended except for long continuous recording or playback.

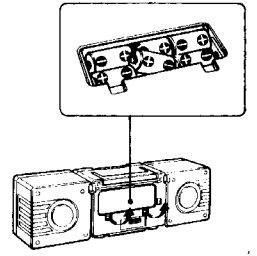
If you have any questions or problems concerning your unit, please consult your nearest Sony dealer.

Power Sources



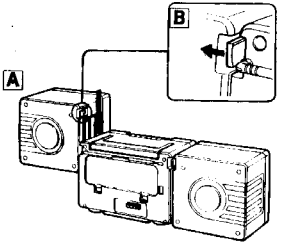
Notes

- The unit cannot be operated on batteries when the AC power cord is connected to the unit.
- When the OPR/BATT (operation/battery) indicator glows faintly, replace all the batteries.
- For critical recordings, operating the unit on AC power is recommended.



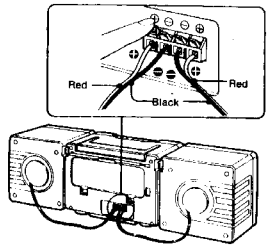
Insert six size D (R20) batteries.

Connecting Speakers



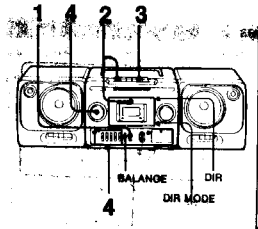
Align the grooves and slide the speaker box down. [A]

To detach speakers [B]
Unlock the speaker and slide the speaker box all the way up and away from the main unit.



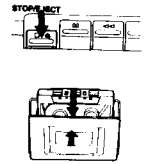
- Turn off the power before connecting or disconnecting the speaker cords.
- Connect right speaker to R connectors and left speaker to L.
- Connect black wires to − terminals and red wires to + terminals.

Tape Playback

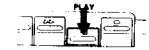


1 Set to TAPE.

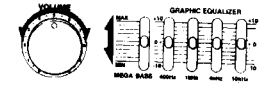
2 Insert a cassette.



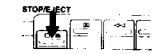
3 Press ◀ PLAY.



4 Adjust VOLUME, MEGA BASS and GRAPHIC EQUALIZER, if necessary.



To stop playback



Tape operation buttons

wind rapidly in ◀ direction	◀◀
wind rapidly in ▶ direction	▶▶
stop playback/recording	■▲
release ▶▶ or ◀◀	■▲
pause playback/recording	■
release pause	■

Be sure to press ■ ▲ to release ◀◀ or ▶▶ at the tape end of each direction.

To locate a desired position
Keep pressing ◀◀ or ▶▶ during play.
At the desired point found by listening to the high-speed sound, release the pressed button to restart playing.

For private listening
Connect stereo headphones to the PHONES jack.

When the unit is in use
The OPR/BATT (operation/battery) indicator lights. Intensity of glow shows battery level.

To listen to the other side of the cassette being played
Press the ◀/▶ DIR (tape transport direction) switch.
The ◁ ▷ FWD/REV (forward/reverse) indicator indicates tape transport direction of the cassette being played.

To select playback mode

	DIR (direction) MODE selector
To play both sides of a cassette once*	Set to ⇄
To play one side of a cassette	Set to ⟶

* Playback should be started from the forward (front) side. Be sure to set the ◁ ▷ FWD/REV indicator to ◁. If not, the tape will stop playing when the playback of the reverse side is finished, even if the DIR MODE selector is set to ⇄.

Adjusting the sound

MEGA BASS control
Use to boost or reduce the bass.

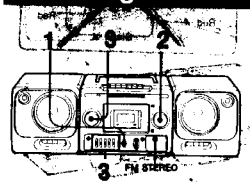
GRAPHIC EQUALIZER controls
Use to equalize the reproduced sound.

Frequency coverage of each equalizer control

400 Hz	Adjusts the middle frequency range such as human voice and the middle frequencies of instrumental music.
1 kHz	Provides more presence of vocals.
4 kHz	Adjusts the brightness of the sound.
10 kHz	Effects general treble. Lower to reduce high frequency noise such as tape hiss.

BALANCE control
Use to adjust the stereo imaging, especially when speakers are not symmetrically placed.

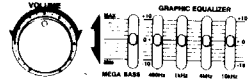
Listening to the Radio



1 Select the desired band.

2 Tune in a desired station.

3 Adjust VOLUME, MEGA BASS and GRAPHIC EQUALIZER, if necessary.



To turn off the radio

Antenna adjustment

FM

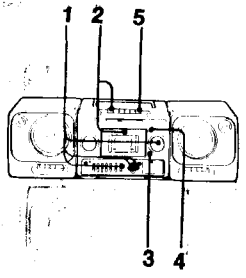
AM

When an FM stereo program is tuned in
The FM STEREO indicator lights up.

If the received FM stereo is too weak
The reception becomes monaural, and the FM STEREO indicator will go out.

Note on antenna adjustment
Do not try to raise the antenna when the antenna makes a right angle with the unit horizontally. This could cause the antenna to break.

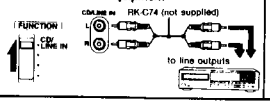
Recording Use only a TYPE I (normal) cassette for recording.



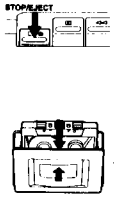
1 From radio

From mixing microphone (MIX MIC)

From another stereo equipment



2 Insert a cassette.



3 Set DIR MODE.

	DIR (direction) MODE selector
To record both sides of a cassette once	Set to ⇄
To record one side of a cassette	Set to ⇉

4 Check the tape transport direction.
If necessary, press DIR. Both-sides-recording should be started from the forward (front) side. (◁ of the ◁ ▷ FWD/REV indicator should be lit.)

5 Press ● REC.

◄ is pressed automatically.

To stop recording

After recording,
set FUNCTION to TAPE/RADIO OFF.

When the tape reaches the end, depressed ● and ◄ will be automatically released (Auto Shut-off function).

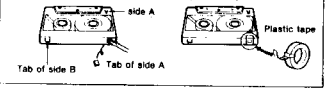
No volume and graphic equalizer adjustments are necessary.
Recording level is automatically set. Volume and graphic equalizer adjustments will not affect recording level.

Note
You can record the sound from a microphone if it is inserted to the MIX MIC jack.

To prevent accidental erasure

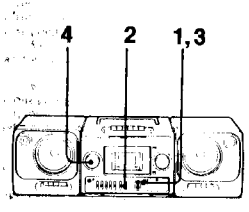
To protect side A recording
Break off tab of side A.

To reuse a cassette
Cover each slot with plastic tape.



Microphone Mixing

Microphone sounds from the mixing microphone (MIX MIC) can be mixed with CD, radio or tape.
Use a monaural microphone equipped with a miniplug (not supplied).



1 Connect a microphone (not supplied) to MIX MIC jack.

If the microphone has a power switch, set it to ON.

2 Select the sound source desired.

Sound source	FUNCTION selector
The sound of the equipment connected to the CD/LINE IN jacks	CD/LINE IN
FM programs	FM
AM programs	AM
Tape sound	TAPE/ RADIO OFF

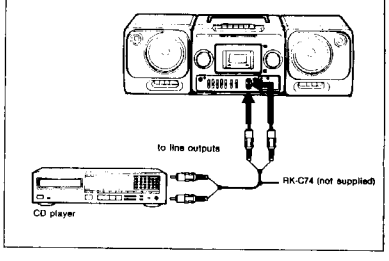
3 Play the sound source and speak or sing into the microphone.

4 Adjust VOLUME.

To record the mixed sound
Insert a cassette and press ● REC.
You can record the sound of the microphone mixed with CD or a radio program.

Note
If a howling (acoustic feedback) occurs, move the microphone away from the speakers or turn down the VOLUME.

Listening to or Recording from Various Sources



1 Connect as illustrated.
2 Set FUNCTION to CD/LINE IN.
3 Play the connected source.
4 To listen to the source, adjust the volume.
To record, press REC on a unit.

Notes on connection
- Set FUNCTION to TAPE/RADIO OFF before making connection.
- The connecting cords should be fully inserted into the jacks.
- Note that the red plug of the connecting cord is for the R (right) channel and the white plug for the L (left) channel.